

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/001107A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N21/17 G01N21/63 G01N29/24 G01B11/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 666 308 A (WILLIAMS CLAYTON C) 19 May 1987 (1987-05-19)	1
Y	column 1, line 9 -column 2, line 64	1
A	column 7, line 24 - line 59; figures 1,3	6-8,12, 13
Y	US 5 812 261 A (ROGERS JOHN A ET AL) 22 September 1998 (1998-09-22)	1
A	cited in the application column 4, line 32 -column 5, line 27; figures 1,2	2,6,7, 12,13
Y	US 5 633 711 A (DUGGAL ANIL R ET AL) 27 May 1997 (1997-05-27)	1
A	cited in the application column 6, line 52 -column 8, line 9; figures 1-3	6,7,12, 13
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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G document member of the same patent family

Date of the actual completion of the international search

1 July 2004

Date of mailing of the international search report

20/07/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 683 750 A (STEARNS RICHARD G ET AL) 4 August 1987 (1987-08-04) column 1, line 6 -column 2, line 65 column 10, line 13 - line 23; figure 1 ---	1
A	WO 01/35881 A (JEAN BENEDIKT ;BENDE THOMAS (DE)) 25 May 2001 (2001-05-25) page 9, line 5 -page 10, line 16 page 14, line 8 - line 20 -----	1

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4666308	A	19-05-1987	NONE	
US 5812261	A	22-09-1998	US 5633711 A EP 0913071 A1 JP 2000515244 T WO 9803044 A1 US 6081330 A US 6348967 B1	27-05-1997 06-05-1999 14-11-2000 22-01-1998 27-06-2000 19-02-2002
US 5633711	A	27-05-1997	US 6081330 A US 6348967 B1 US 5812261 A DE 69232288 D1 DE 69232288 T2 EP 0593667 A1 WO 9301476 A1	27-06-2000 19-02-2002 22-09-1998 24-01-2002 14-08-2002 27-04-1994 21-01-1993
US 4683750	A	04-08-1987	NONE	
WO 0135881	A	25-05-2001	AU 1521201 A WO 0135881 A1 US 6694173 B1	30-05-2001 25-05-2001 17-02-2004